

8/15 #13



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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/988,115A

DATE: 08/14/2002 **86**
 TIME: 14:44:37

Input Set : A:\50195.008003.SEQLIST.TXT
 Output Set: N:\CRF4\08142002\I988115A.raw

4 <110> APPLICANT: Robl, James M.
 5 Goldsby, Richard A.
 6 Ferguson, Stacy E.
 7 Kuroiwa, Yoshima
 8 Tomizuka, Kazuma
 9 Ishida, Isao
 11 <120> TITLE OF INVENTION: Expression of Xenogenous (Human)
 12 Immunoglobulins in Cloned, Transgenic Ungulates
 15 <130> FILE REFERENCE: 50195/008003
 17 <140> CURRENT APPLICATION NUMBER: US 09/988,115A
 C--> 18 <141> CURRENT FILING DATE: 2002-08-09
 20 <150> PRIOR APPLICATION NUMBER: US 60/311,625
 21 <151> PRIOR FILING DATE: 2001-08-09
 23 <150> PRIOR APPLICATION NUMBER: US 60/256,458
 24 <151> PRIOR FILING DATE: 2000-12-20
 26 <150> PRIOR APPLICATION NUMBER: US 09/714,185
 27 <151> PRIOR FILING DATE: 2000-11-17
 29 <150> PRIOR APPLICATION NUMBER: US 60/166,410
 30 <151> PRIOR FILING DATE: 1999-11-19
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 34 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 38 <212> TYPE: DNA
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: Synthetic Primer
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 47 <210> SEQ ID NO: 2
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 49 <212> TYPE: DNA
 50 <213> ORGANISM: Artificial Sequence
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 53 <223> OTHER INFORMATION: Synthetic Primer
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 59 <211> LENGTH: 22
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial Sequence
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: Synthetic Primer

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67 ggagaccacc aaaccctcca aa 22
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71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
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78 gagagttgca gaaggggtyg act 23
80 <210> SEQ ID NO: 5
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83 <213> ORGANISM: Artificial Sequence
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86 <223> OTHER INFORMATION: Synthetic Primer
88 <400> SEQUENCE: 5
89 accacctatg acagcgtgac 20
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic Primer
99 <400> SEQUENCE: 6
100 gtggcagcaa gtagacatcg 20
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 22
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
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110 <400> SEQUENCE: 7
111 gtcacatcatct ctgccccttc tg 22
113 <210> SEQ ID NO: 8
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115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
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119 <223> OTHER INFORMATION: Synthetic Primer
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129 <220> FEATURE:
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RAW SEQUENCE LISTING

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140 <220> FEATURE:
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143 <400> SEQUENCE: 10
144 caccgtgctc tcatcggatg                20
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 23
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
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154 <400> SEQUENCE: 11
155 caggtgcagc tggaggagtc tgg            23
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159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Synthetic Primer
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166 caggagaaag tgatggagtc                20
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170 <212> TYPE: DNA
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177 ggagaccacc aaaccctcca aa            22
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184 <220> FEATURE:
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195 <220> FEATURE:
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Input Set : A:\50195.008003.SEQLIST.TXT

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213 <211> LENGTH: 23
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
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246 <211> LENGTH: 22
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248 <213> ORGANISM: Artificial Sequence
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253 <400> SEQUENCE: 20
254 ggagaccacc aaaccctcca aa                                22
256 <210> SEQ ID NO: 21
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258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
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264 <400> SEQUENCE: 21
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RAW SEQUENCE LISTING

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TIME: 14:44:37

Input Set : A:\50195.008003.SEQLIST.TXT

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278 <210> SEQ ID NO: 23
279 <211> LENGTH: 22
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Synthetic Primer
286 <400> SEQUENCE: 23
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291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
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297 <400> SEQUENCE: 24
298 caggtgcagc tggaggagtc tgg                23
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303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthetic Primer
308 <400> SEQUENCE: 25
309 caggagaaag tgatggagtc                20
311 <210> SEQ ID NO: 26
312 <211> LENGTH: 22
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Synthetic Primer
319 <400> SEQUENCE: 26
320 gtcacatcatct ctgccccttc tg                22
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325 <213> ORGANISM: Artificial Sequence
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328 <223> OTHER INFORMATION: Synthetic Primer
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331 aacaacttct tgatgtcatc at                22
333 <210> SEQ ID NO: 28
334 <211> LENGTH: 29

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/988,115A

DATE: 08/14/2002
TIME: 14:44:38

Input Set : A:\50195.008003.SEQLIST.TXT
Output Set: N:\CRF4\08142002\I988115A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:48; N Pos. 676,677,678,679,680,681,682,683,684,685,686,687,688,689,690
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Seq#:48; N Pos. 706,707,708,709,710,711,712,713,714,715,716,717,718,719,720
Seq#:48; N Pos. 721,722,723,724,725,726,727,728,729,730,731,732,733,734,735
Seq#:48; N Pos. 736,737,738,739,740,741,742,743,744,745,746,747,748,749,750
Seq#:48; N Pos. 751,752,753,754,755,756,757,758,759,760,761,762,763,764,765
Seq#:48; N Pos. 766,767,768,769,770,771,772,773,774,775,776,777,778,779,780
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Seq#:48; N Pos. 811,812,813,814,815,816,817,818,819,820,821,822,823,824,825
Seq#:48; N Pos. 826,827,828,829,830,831,832,833,834,835,836,837,838,839,840
Seq#:48; N Pos. 841,842,843,844,845,846,847,848,849,850,851,852,853,854,855
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Seq#:48; N Pos. 916,917,918,919,920,921,922,923,924,925,926,927,928,929,930
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Seq#:48; N Pos. 991,992,993,994,995,996,997,998,999,1000,1001,1002,1003
Seq#:48; N Pos. 1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015
Seq#:48; N Pos. 1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027
Seq#:48; N Pos. 1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/14/2002
PATENT APPLICATION: US/09/988,115A TIME: 14:44:38

Input Set : A:\50195.008003.SEQLIST.TXT
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Seq#:51; N Pos. 7,8,18,123

VERIFICATION SUMMARY

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L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:660
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:720
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:780
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:840
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:900
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:960
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1020
L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1080
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1140
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1200
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1260
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1320
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1380
L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1440
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L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:1620
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:120